

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.t SEB "D" Target Primary Cave Sweep Checklist

C-A-OPM Procedures in which this Attachment is used.		
4.56		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Approved: _____ ***Signature on File*** _____
 Collider-Accelerator Department Chairman Date

P. Ingrassia

SEB "D " TARGET PRIMARY CAVE SWEEP CHECKLIST

(Team Leader)_____ (Operator 2)_____

Time:_____ Date:_____

Warning:

IF any personnel are encountered during the sweep, **then** they will remain with the sweeper or the sweep shall be aborted.

If the sweep is aborted **then** the person(s) must be escorted out of the cave by unlocking and opening the "D" Line North Gate.

Prerequisites

- Two Operators to perform the sweep
- BNL keys, Nos. H693, 12, AA225, AA256A
- C-A OPM-ATT 4.56.t- SEB "D" TARGET PRIMARY CAVE SWEEP CHECKLIST (3 pages)
- Controlled Access enabled by simultaneous operation of H693 keyswitch & MCR_2-1L2 pushbutton
- TLD Badge and Self Reading Dosimeter (Alarming) and Pencil Type (SRD)

Check

- _____ 1. Team Leader and Operator 2 enter the "D" Line North Gate (BNL-12 key) and close the gate behind.
- _____ 2. Team Leader and Operator 2 proceed through the labyrinth, turn right at the end of the labyrinth and proceed to the upstream end of the cave where the beam line penetrates into the cave.
- _____ 3. Team Leader resets the Switchyard Upstream Escape Gate (BNL 12 key), if it is not already reset, and verifies that the Reset (amber) light is lit.
- _____ 4. Operator 2 crosses under the "D" line and proceeds to the east (beam right) side of the cave.
- _____ 5. Team Leader and Operator 2 sweep downstream towards the D Line North Gate.
- _____ 6. Operator 2 sweeps behind and around the shielding located between the cave outer east wall and the D line transport.
- _____ 7. Team Leader and Operator 2 proceed to the "D" Line South Gate Labyrinth.
- _____ 8. Operator 2 stands static watch at DQ7 and makes certain that no one passes into the secured area.
- _____ 9. Team Leader proceeds into the "D" Line South Gate Labyrinth to the "D" Line South Gate.
- _____ 10. Team Leader resets the "D" Line South Gate (BNL 12 key), by turning the key and simultaneously pushing the Reset button.
- _____ 11. Team Leader verifies that the "Bolt Home" (clear) and "Gate Reset" (amber) lights are lit on the ACS 4146 box.
- _____ 12. Team Leader sweeps down the labyrinth and contacts Operator 2.
- _____ 13. Team Leader (beam left) and Operator 2 (beam right) continue to sweep downstream.
- _____ 14. Team Leader sweeps to the down stream end of the D1D7 magnet storage area and then returns to the upstream end of D1D7
- _____ 15. Team Leader (beam left) and Operator 2 (beam right) continue to sweep downstream.
- _____ 16. Team Leader stands static watch at entrance to "D" Line North Gate Labyrinth.
- _____ 17. Operator 2 proceeds downstream to D Target Gate (internal)
- _____ 18. IF the D Target Gate (internal) is reset (BOTH redundant and Gate Reset Lights are lighted) THEN the target area need not be swept. Initial this step, skip steps 19-25, and resume the procedure at Step 26.

Note 1:

If the Target Shutter (curtain) fails to operate, do not abort the sweep. Spend less time in the vicinity of the Target.

Note 2:

The Operator may choose not to close the Target Shutter if they feel that less dose will be incurred by not doing so.

- _____ 19. IF the D Target Gate (internal) is not reset THEN operator 2 closes the target shutter (curtain) by: using the controller found on the wall opposite DQ8&9 to:

CONTINUED ON NEXT PAGE

- Move the Toggle Switch (second position) to Reverse
- Turn drive speed control (first position) Counter Clockwise for SLOW
- Push Green (third position) START button
- When the clunk is heard or the curtain motion stops press the Red (fourth position) STOP button.

- ____ 20. Operator 2 opens the D Target Gate (internal) using the AA225 key in the lock on the door .
- ____ 21. Operator 2 proceeds to the downstream end of the cave and sweeps upstream while making certain to sweep both alcoves to the right and left (D2 line) of the "D" target.
- ____ 22. Operator 2 sweeps upstream to DD380 crosses under the "D" line transport and views the area beam right of DD380.
- ____ 23. Operator 2 returns to beam left of DD380 and sweeps out the D Target Gate (internal).
- ____ 24. Operator 2 Resets the D Target Gate by turning the BNL12 key clockwise in the key-switch on the ACS box to the left of the D Target Gate door.
- ____ 25. Operator 2 opens the Target Shutter (curtain) by setting the toggle switch to the FORWARD position. (Make sure to press STOP button when curtain motion ceases).
- ____ 26. Operator 2 sweeps upstream to the junction of the "D" Line North Gate Labyrinth, contacts the Team Leader and returns this checklist to the Team Leader.
- ____ 27. Team Leader and Operator 2 sweep though the labyrinth, out the "D" Line North Gate and close the gate behind.

Note:

D Line North Gate will not reset if the D Target Gate (internal) is not reset.

- ____ 28. Team Leader locks and resets the "D" Line North Gate, making certain that the "Bolt Switch light (clear) and the "Reset" light (amber) are lit on the ACS 4133 box.
- ____ 29. Team Leader verifies, with personnel in MCR, that:
"D" line North Gate is reset @ MCR_2-1L8 "D" line South Gate is reset @ MCR_2-1L7
- ____ 30. File the checklists in the Completed Sweep Checklist Binder.